SAFETY DATA SHEET

	000100		
Section 1	Identification		Page E1 of E2
han mi	500 Greenview Court Vernon Hills, Illinois 6006 Phone: (847) 968-5050	51-1862	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.
Product	CRYSTAL VIOLET		
Synonyms	Gentian Violet / Basic Violet 3 / C.I.	No. 42555	
Section 2	Hazards identification		
Target organ GHS Classif Acute toxicit Eye damage Carcinogenic Aquatic acut Aquatic acut Aquatic acut H302: Harmi H318: Cause H351: Suspe	: GHS05 / GHS07 / GHS08 / GHS09 ns: Eyes	F F F F F F F F F F F F F F F F F F F	 Precautionary statement: 201: Obtain special instructions before use. 202: Do not handle until all safety precautions have been read and understood. 264: Wash hands thoroughly after handling. 270: Do not eat, drink or smoke when using this product. 273: Avoid release to the environment. 280: Wear protective gloves/protective clothing/eye protection/face protection. 2301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell. 2305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 2310: Immediately call a POISON CENTER or doctor. 2391: Collect spillage. 2405: Store locked up. 2501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients						
Chemical Name	CAS #	%	EINECS			
Crystal violet, biological stain and/or pH indicator	548-62-9	>96%	208-953-6			
Section 4 First aid measures						

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION AND POSSIBLE DAMAGE. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8	Exposure controls / personal protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits.	Crystal violet	Not established	Not established	Not established		

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator

approved respirator								
Section 9	Physical and chemical properties							
Appearance: Solid. Green crystalline powder. Odor: Musty odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: Decomposes Boiling point: Data not available Flash point: Not flammable		Flammability (s Explosion limit Vapor pressure Vapor density Relative density	Evaporation rate (= 1): Data not available Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Data not available Vapor density (Air = 1): Data not available Relative density (Specific gravity): Data not available Solubility(ies): Soluble in water.			Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: $215^{\circ}C$ ($419^{\circ}F$) Viscosity: Data not available. Molecular formula: $C_{25}H_{30}CIN_3$ Molecular weight: 407.99		
Section 10	Stability and react	tivity						
Chemical stability: Conditions to avoi		Hazardo ures and heat. Protect fror	us polymerization: n light.	Will not occur.				
	rials: Strong oxidizers,		0					
Hazardous decom	position products: Ca	rbon oxides, nitrogen oxide	es, hydrogen chloride					
Section 11	Toxicological info	rmation						
IARC: No compone OSHA: No compone Reproductive toxii CA Prop 65: A WA STOT-single expoo STOT-repeated ex Aspiration hazard Potential health ef Inhalation: May cause Inhalation: May cause si Eyes: May cause e documented exposi Signs and sympto not available. Exer	nt of this product preser ent of this product prese city: Data not available RNING! This product ca sure: Data not available posure: Data not available fects: use respiratory tract irrita if swallowed. Causes g cin irritation. ye irritation and possible ure cases with human o ms of exposure: To th cise appropriate proced	an expose you to Crystal vi e able ation. astrointestinal irritation with e damage. This product co r rabbit eyes. e best of our knowledge th ures to minimize potential l	equal to 0.1% is iden equal to 0.1% is iden iolet, which is known h nausea, vomiting, a ontains a cationic dye e chemical, physical	ified as probable, po tified as a carcinoge to the State of Califo nd diarrhea. . Similar dyes have	ossible or confir en or potential o rrnia to cause c caused permar	med human carci carcinogen by OS ancer. nent injury to the o	ΉΑ.	
	tion: RTECS #: BO90							
Section 12 Toxicity to fish: N	Ecological inform	ation						
Toxicity to algae: F Persistence and de Mobility in soil: No Other adverse effe Section 13 These disposal gu regulations may b	Pseudokirchneriella subo egradability: No data a o data available cts: An environmental Disposal conside uidelines are intended e different. Dispose o	PBT and vi hazard cannot be excluded rations I for the disposal of catal of in accordance with all	mg/L/72 hours ulative potential: No PvB assessment: N I in the event of unpro- log-size quantities of	data available o data available ofessional handling c only. Federal regul	or disposal. Iations may aj	pply to empty co a licensed cher	ontainer. State and/or loc mical disposal agency.	
Section 14	Transport inform							
lazard class: Not applicable Packing grou			name: Not Regulated group: Not applicable Reportable Quantity: No Guide # Not applicable			Marine pollutant: No		
Section 15	Regulatory inform							
	· · ·	umber for the anhydrous form	is on the Inventory list.					
Compor	ent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65	
Crystal violet		Listed	Not listed	Not listed	Listed	Not listed	WARNING -Cancer - www.P65Warnings.ca.go	
Section 16	Other information							
The information contai dent determinations of	ned herein is furnished with suitability and completene ency for Research on Cano	nout warranty of any kind. Em ss of information from all sourc	ces to assure proper use	of these materials and	the safety and h	ealth of employees	red by them and must make ind . NTP: National Toxicology Pro osure, RE: Repeated Exposure,	

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